

DOCKET NO.: ABDT-0575

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Deia Salah-Eldin Bayoumi, et al.

Confirmation No.:

Application No.: 10/699,041

Group Art Unit: Not Yet Assigned

Filing Date: October 31, 2003

Examiner: Not Yet Assigned

INDUSTRIAL INFORMATION (IT) WORKFLOW OPTIMIZER FOR DISCRETE MANUFACTURING

DATE OF DEPOSIT:

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, THE DATE INDICATED ABOVE AND ADDRESSED TO THE UNITED STATES PATENT AND

TÝPED NAME: John E. McGlynn **REGISTRATION NO.: 42,863**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is \boxtimes being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified a	application as set forth in § 1.491, before the mailing date
of a first Office Acti	ion on the merits of the above-identified application, or
before the mailing da	ate of a first Office Action after the filing of request for
continued examination	on under § 1.114, no additional fee is required.
In accordance with §	1.129(a), this Information Disclosure Statement is being
filed in connection v	with the first or second After Final Submission,
therefore:	
☐ Certifi	cation in Accordance with § 1.97(e) is attached; or
The fe	e of \$180.00 as set forth in § 1.17(p) is attached.
In accordance with §	1.97(c), this Information Disclosure Statement is being
filed after the period	set forth in § 1.97(b) above but before the mailing date of
either a Final Action	under § 1.113 or a Notice of Allowance under § 1.311, or
before an action that	otherwise closes prosecution in the application, therefore:
	Certification in Accordance with § 1.97(e) is attached;
	or
	The fee of \$180.00 as set forth in § 1.17(p) is attached.
In accordance with §	1.97(d), this Information Disclosure Statement is being
filed after the mailing	g date of either a Final Action under § 1.113 or a Notice
of Allowance under	§ 1.311 but before, or simultaneously with, the payment
of the Issue Fee, the	erefore included are: Certification in Accordance with §
1 07(a): and the cubm	vission fee of \$180.00 as set forth in \$1.17(n)

	Copie	s of each of the references listed on the attached Form PTO-1449 are
	enclos	sed herewith.
\boxtimes	Copie	s of references listed on the attached Form PTO-1449 are enclosed
	herew	ith
\boxtimes	Copie	s of references listed on the attached Form PTO 1449 are not required to
	be su	bmitted pursuant to the June 30, 2003 recent revisions to 37 CFR §
	1.98(a	a)(2)(i).
	EXCE	EPT THAT:
	\boxtimes	In view of the voluminous nature of references 22, 40 and 41, and the
		likelihood that these references are available to the Examiner, copies
		are not enclosed herewith.
		In accordance with § 1.98(d), copies of the following references listed
	•	on the attached Form PTO-1449 are not enclosed herewith because
		they were previously cited by or submitted to the U.S. Patent and
		Trademark Office in patent application(s) for which a claim for priority
		under 35 U.S.C.§ 120 have been made in the instant application:
		Copies of references [list as appropriate] listed on the
		attached Form PTO-1449 were previously cited by or submitted
		to the Patent and Trademark Office in prior Application No.
		, filed .

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date:

3/1/04

ohn E. McGlynn

Registration No. 42,863

WOODCOCK WASHBURN LLP

One Liberty Place - 46th Floor Philadelphia, PA 19103

Telephone: (215) 568-3100

Facsimile: (215) 568-3439

© 2004 WW



Form 1	PTO	-1449 Modified	Docket No. ABDT-0575/B030270	Application No. 10/699,041		
C	ited b	t and Publications y Applicant sheets if necessary)	Applicant Deia Salah-Eldin Bayoumi, et al.			
		nent of Commerce Trademark Office	Filing Date October 31, 2003	Group Not Yet Assigned		
O	ГНЕІ	R DOCUMENTS (Includ	ing Author, Title, Date,	Pertinent Pages, Etc.)		
•	1	System", IEEE Solutions	s, 1998, 55-57	t Paperless Manufacturing		
	2	Chase, N., "Paperless Ma	anufacturing Pays Off', Q	Quality, November 1998, 46-47		
	3	deSpautz, J., "Quantifying the Benefits of Automation", ISA Transactions, 1994, 33, 107-112				
	4	Eckerson, W., "Paperfree Factory gets Patriot Flying", Network World, 8(52), 2 pages				
	5	Fouhy, k. et al., "Paperless Batch Plants become a Reality", <i>Chemical Engineering</i> , 1995 , 31-33				
	6	Fuller, L.F. et al., "A Joint Industry_university CIM Project for University Microelectronics Manufacturing", <i>IEEE</i> , 1991 , 37-40				
	7	Gould, L., "Data Collection Leads to Paperless Manufacturing", Managing Automation, May 1993, 48-49				
	8	Jain, H.K. et al., "E-R Approach to Distributed Heterogeneous Database Systems for Integrated Manufacturing", <i>Information Resources Management Journal</i> , 1992 , 3(1), 21-29				
	9	Johanson, D.C. et al., "Application of a B&W Developed Computer Aided Pictorial Process Planning System to CQMS for Manufacturing Process", Supercollider 4, "" 1992, 513-516				
	10	Haverson, D.S., RS/6000	Drives Paperless Manufa	acturing", Applied Solutions, 21-22		
EXAMINER	I	<u> </u>	DATE CON	SIDERED		

Form PTO-1449 Modified			Docket No ABDT-05	Application No. 10/699,041		
Cited	List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office			Applicant Deia Salah-Eldin Bayoumi, et al.		
				te 31, 2003	Group Not Yet Assigned	
ОТН	ER	DOCUMENTS (Includ	ing Author	, Title, Date,	Pertinent Pages, Etc.)	
1		Stockout Cost", Int. J. Pr	rod. Res., 1	989, 27(4), 701		
· 1		1996, 91, 419-420	_	_	ung der Geschaftsprozesse", ZWF,	
. 1		IEEE Transactions on Sy	sign of Integrated Manufacturing System Control Software", ystems, Man, and Cybernetics, 1987, 17(6), 881-897			
1		Ram, S.N. et al., "Paperless Manufactruing for IC Assembly", <i>IEEE/SEMI Int' Semiconductor Manufacturing Science Symposium</i> , 1992 , 90-93			, 1992, 90-93	
1	15 Remson, M.G., "Paperle			ess Manufacturing, A Challenge Now and in the Future", onductor Manufacturing Science Symposium, 1991, 89-94		
1	16 Saad, et al., "Effectivene Manufacturing Systems"					
1	17	Vasilash, G.S., "Meeting Production, July 1993, 5	g the Future Head-on (Machinery Manufacturing)", 50-55			
				rk Flow Optimization", Proceedings of the 1986 Summer ference, 1986, 705-710		
1	von Hardenberg, P.W. et al., "Use of Integrated Knowledge-Based Systems for Helicopter Design and Manufacturing", American Helicopter Society 51 st Annual Forum, 1995, 1-10					
2	20	Shop Solutions-"Islands Engineering, 1997, 134-		tion have Pape	rless Links", Manufacturing	
EXAMINER	_			DATE CON	SIDERED	

Form PTC	O-1449 Modified	Docket No. ABDT-0575/B030270	Application No. 10/699,041			
Cited	ent and Publications by Applicant sheets if necessary)	Applicant Deia Salah-Eldin Bayoumi, et al.				
	ment of Commerce Trademark Office	Filing Date October 31, 2003	Group Not Yet Assigned			
ОТН	ER DOCUMENTS (Include	ling Author, Title, Date,	Pertinent Pages, Etc.)			
21	"Revamping Manufactu	ring", Computer-Aided En	gineering, 1995 , 10-11			
* . 22	of Technology		Manufacturing", Georgia Institute			
23	and Information Sets", I Management, 2001, 21(Dewhurst, F. et al., "Towards Integrated Manufacturing Planning with Common Tool and Information Sets", <i>International Journal of Operations & Production Management</i> , 2001 , 21(11), 1460-1482				
24	Using Object-Oriented I 2002 , 40(8), 1759-1785	Fung, R.Y.K. et al., "Adaptive Production Scheduling of Virtual Production Systems Using Object-Oriented Petri Nets with Changeable Structure", <i>Intl. J. Prod. Res.</i> , 2002 , 40(8), 1759-1785				
25	Advances in Engineering	Greenwell, R.M. et al., "Computer-aided Acquisition of Manufacturing Information", Advances in Engineering Software, 1994, 20, 1-12				
20	26 Guide, Jr., V.D.R. et al., "Rough-cut Capacity Planning for Remanufacturing Fin Production Planning & Control, 1997, 8(3), 237-244					
27	27 Hitomi, K., "Strategic Integrated Manufacturing Systems: The Concept and Structures", <i>International Journal of Production of Economics</i> , 1991, 25, 5-12					
28	Jain, H.K. et al., "E-R Approach to Distributed Heterogeneous Database Systems for Integrated Manufacturing", <i>Information Resource Management Journal</i> , 1992 , 3(1), 21-29					
29	Thereof', Patents Alert,	Jean-Luc, G., "Automated Shop Floor Control System and Method of Operation Thereof", <i>Patents Alert</i> , 5530857 , page 87				
30	Naylor, A.W., et al., "Design of Integrated Manufacturing System Control Software", <i>IEEE Transactions on Systems, Man, and Cybernetics,</i> 1987, SMC17-(6), 881-897					
EXAMINER		DATE CON	SIDERED			

^{*} A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

Form PTO-1449 Modified		Docket No ABDT-05	75/B030270	Application No. 10/699,041		
			Applicant Deia Salah-Eldin Bayoumi, et al.			
U.S. Department of Commerce Patent and Trademark Office			Filing Date October 31, 2003 Group Not Yet Assigned			
ro	HEF	R DOCUMENTS (Includ	ing Author	, Title, Date, F	Pertinent Pages, Etc.)	
	31				for Control of Production of the mentation and Control, 1983, 4,	
	32	Ouelhadj, D. et al., "A M Flexible Manufacturing S Conference on Robotics	Systems (FN	MS)", Proceedi	for Dynamic Scheduling in ings of the IEEE International -1119	
	33	Patkai, B., "A Cooperativi IEEE, 1998, 2518-2521	ve Scheduli	ng System for l	Paper Machinery Manufacturing",	
	34	Ramaswamy, S.E. et al., "Deadlock-Free Schedules for Automated Manufacturing Workstations", <i>IEEE Transactions on Robotics and Automation</i> , 1996 , 12(3), 391-400				
	35	Roberts, P.D. et al., "A Coordination Strategy for Integrated Operations Management and Control, Abstracts, 091, page 1071				
	36	Manufacturing Systems"	, SPIE, Vol	. 3203, 88-99	luling in Agent-Based Flexible	
	37	Slomp, J. et al., "A Manufacturing Planning and Control System for a Flexible Manufacturing System", <i>Robotics & Computer-Integrated Manufacturing</i> , 1993 , 10(1/2), 109-114				
	38	Zhu, L. et al., "FMS Job-Shop Scheduling Under Disruptions with Consideration of Time and Sequence Deviation", Proceedings of the IEEE International Symposium on Intelligent Control/Intelligent Systems and Semiotics, 1999, 138-143				
	39	AMICE, Computing and	Control En	gineering Jour	90s", ESPRIT Consortium <i>rnal</i> , 1991 , 101-102	
*	40	K. Kachigan, Multivarian Edition, 1991	te Statistica	l Analysis, A C	onceptual Introduction, 2 nd	
EXAMINER		· · · · · · · · · · · · · · · · · · ·		DATE CONS	TE CONSIDERED	

A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

© 2004 WW

Form PTO	Docket No ABDT-057	/5/B030270	Application No. 10/699,041			
List of Paten Cited b (Use several s	Applicant Deia Salah-Eldin Bayoumi, et al.					
U.S. Departn Patent and T	Filing Date October 3		Group Not Yet Assigned			
ОТНЕ	R DOCUMENTS (Includ	ing Author,	Title, Date, l	Pertinent Pages, Etc.)		
* 41 . 42 . 43 . 44 . 45	 Regression, 2002, John Wiley & Sons, Inc., 42 Cox, D., "Analyzing Transformer Test Data", 43 Geromel, L. H. et al., "The Application of Intelligent Systems in Power Transformer Design", Proceedings of the 2002 IEEE Canadian Conference on Electrical & Computer Engineering, 2002, 285-290 44 Doulamis, N.D., et al., "A Synergetic Neural Network-Genetic Scheme for Optima Transformer Construction", Integrated Computer-Aided Engineering, 2002, 9, 37-5 45 Saravolac, M.P., "Use of Advance Software Techniques in Transformer Design", T Institution of Electrical Engineers, 1998, 1-11 46 Balma, P.M. et al., "Expert Systems for Power Transformer Maintenance, 			ork-Genetic Scheme for Optimal Aided Engineering, 2002, 9, 37-56 iques in Transformer Design", The		
58 th Annual Meeting, 1996, 2, 963-967 EXAMINER DATE CONSIDERED						

A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

C

©2004 WW

TUILLI O-1447 Mounted				Docket No. ABDT-0575/B030270	Application No. 10/699,041		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Applicant Deia Salah-Eldin Bayoumi, et al.			
		rtment of Commerce d Trademark Office	;	Filing Date October 31, 2003 Group Not Yet Assigned			
		U. S	S. PATENT	DOCUMENTS			
Examiner Initial		Document No.	Date	Name Class Subcla			
4	47	5,311,438	05/10/94	Sellers, et al.	364	468	
•,	48	5,463,555	10/31/95	Ward, et al.	364	468	
	49	5,835,764	11/10/98	Platt, et al.	395	671	
	50	6,324,259 B1	02/05/02	Sandoual	705	7	
	51	6,324,523 B1	11/27/01	Killeen, Jr. et al.	705	35	
	52	6,477,521 B1	11/05/02	Kuomura, et al.	707	1	
	53	2001/0042092 A1	11/15/01	Kudo, et al.	709	200	
	55	2002/0143598 A1	10/03/02	Scheer	705	9	
	56	6,633,772	10/14/03	Ford, et al.	600	345	
	57	6,636,862 B2	10/21/03	Lundahal	707	101	
		FORE	IGN PATE	ENT DOCUMENTS	- 		
Examiner Initial		Document No.	Date	Country	Tra YES	nslation NO	
	58	EP 0 567 291 A2	10/27/93	EPO			
	59	EP 0 721 625 B1	04/24/02	EPO			
	60	WO 95/09387	04/06/95	PCT			
	61	WO 98/57285	12/17/98	PCT			
	62	WO 99/15979	04/01/99	PCT			
	63	WO 01/02928 A2	01/11/01	PCT			
	64	WO 01/50405 A1	07/12/01	PCT			
EXAMINER				DATE CONSIDERED			